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Relevance scale

1 [Sound polymorphic type inference for objects](#)

Jonathan Eifrig, Scott Smith, Valery Trifonov

October 1995 **ACM SIGPLAN Notices**, Proceedings of the tenth annual conference on Object-oriented programming systems, languages, and applications,

Volume 30 Issue 10

Full text available: [pdf\(5.82 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A polymorphic, constraint-based type inference algorithm for an object-oriented language is defined. A generalized form of type, polymorphic *recursively constrained* types, are inferred. These types are expressive enough for typing objects, since they generalize recursive types and F-bounded polymorphism. The well-known tradeoff between inheritance and subtyping is mitigated by the type inference mechanism. Soundness and completeness of type inference are established.

2 [Invited workshop on object-oriented computing systems: Object-oriented processor requirements with instruction analysis of Java programs](#)

Mok Pak Lun, Anthony Fong, Gary K. W. Hau

September 2003 **Proceedings of the 1st international symposium on Information and communication technologies**

Full text available: [pdf\(62.06 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Application development adopts the concept of Object-Oriented Programming (OOP) in order to achieve better organization in module partitioning. OOP have three tenets, which are encapsulation, inheritance, and polymorphism. These tenets in OOP offer the program with enhanced security, organized partitioning, data hiding and code sharing, etc. In OOP system, programs perform as objects in the system. An application can be defined into different classes, or object templates, where each class shares ...

3 [Object-oriented processor requirements with instruction analysis of Java programs](#)

Mok Pak Lun, Anthony Fong, Gary K. W. Hau

December 2003 **ACM SIGARCH Computer Architecture News**, Volume 31 Issue 5

Full text available: [pdf\(174.97 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Application development adopts the concept of Object-Oriented Programming (OOP) in order to achieve better organization in module partitioning. OOP have three tenets, which are encapsulation, inheritance, and polymorphism. These tenets in OOP offer the program with enhanced security, organized partitioning, data hiding and code sharing, etc. In OOP system, programs perform as objects in the system. An application can be defined into

different classes, or object templates, where each class shares ...

4 Producer: A tool for translating Smalltalk-80 to Objective-C

Brad J. Cox, Kurt J. Schmucker

December 1987 **ACM SIGPLAN Notices , Conference proceedings on Object-oriented programming systems, languages and applications**, Volume 22 Issue 12

Full text available:  [pdf\(764.03 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Source to source translation tools provide a way of integrating the strengths of production programming environments like C/UNIX™ with rapid prototyping environments like Smalltalk-80™ into a comprehensive hybrid environment that spans more of the software development life-spiral than ever before. This paper describes a tool-assisted process for translating Smalltalk-80 programs into Objective-C™, and shows how the tool, called Producer, is used in practice. To assist othe ...

5 STARSIM: an object-oriented simulation model of space shuttle ground processing activities

D. G. Linton, S. Khajenoori, J. V. Bullington, H. Cat, K. Halder, G. Herbert, S. Sinnappan, M. D. Heileman

April 1992 **Proceedings of the 25th annual symposium on Simulation**

Full text available:  [pdf\(713.68 KB\)](#)

Additional Information: [full citation](#), [references](#), [index terms](#)

6 Controlling propagation of operations using attributes on relations

James Rumbaugh

January 1988 **ACM SIGPLAN Notices , Conference proceedings on Object-oriented programming systems, languages and applications**, Volume 23 Issue 11

Full text available:  [pdf\(1.52 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Controlling the propagation of operations through a collection of objects connected by various relationships has been a problem both for the object-oriented and the data base communities. Operations such as copy, destroy, print, and save must propagate to some, but not all, of the objects in a collection. Such operations can be implemented using ad hoc methods on objects, at the cost of extra work and loss of clarity. The use of propagation attributes on the relationships between objects pe ...

7 Using pictorial and object oriented programming for computer algebra

Trevor J. Smedley

March 1992 **Proceedings of the 1992 ACM/SIGAPP symposium on Applied computing: technological challenges of the 1990's**

Full text available:  [pdf\(756.39 KB\)](#)

Additional Information: [full citation](#), [references](#), [index terms](#)

8 An object-oriented approach to automated generation of challenge examinations using Ada 95

Arthur Irving Littlefield

January 1997 **ACM SIGAda Ada Letters**, Volume XVII Issue 1

Full text available:  [pdf\(1.04 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

The primary objective of this paper is to analyze and evaluate the usefulness of object-oriented development and the Ada 95 programming language as applied to a specific software development project. A secondary objective is to show that structured

development is still useful while applying object-oriented development and that the two methods can be integrated. The project is to develop an automated tool for generation of challenge examinations to test the knowledge of students in a given subject ...

9 An efficient implementation of SELF a dynamically-typed object-oriented language based on prototypes

C. Chambers, D. Ungar, E. Lee

September 1989 **ACM SIGPLAN Notices, Conference proceedings on Object-oriented programming systems, languages and applications**, Volume 24 Issue 10

Full text available:  [pdf\(2.41 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We have developed and implemented techniques that double the performance of dynamically-typed object-oriented languages. Our SELF implementation runs twice as fast as the fastest Smalltalk implementation, despite SELF's lack of classes and explicit variables. To compensate for the absence of classes, our system uses implementation-level maps to transparently group objects cloned from the same prototype, providing data type information and eliminating the apparent ...

10 ARMISTICE: an experience developing management software with Erlang

David Cabrero, Carlos Abalde, Carlos Varela, Laura Castro

August 2003 **Proceedings of the 2003 ACM SIGPLAN workshop on Erlang**

Full text available:  [pdf\(362.35 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

In this paper, some experiences of using the concurrent functional language Erlang to implement a classical vertical application, a risk management information system, are presented. Due to the complex nature of the business logic and the interactions involved in the client/server architecture deployed, traditional development techniques are unsatisfactory. First, the nature of the problem suggests an iterative design approach. The use of abstractions (functional patterns) and compositionality (...

Keywords: business logic, client/server architecture, concurrent programming, design patterns, distributed computing, functional programming

11 Developing hypermedia applications with methods and patterns

Gustavo Rossi, Fernando Daniel Lyardet, Daniel Schwabe

December 1999 **ACM Computing Surveys (CSUR)**

Full text available:  [pdf\(26.81 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: web information systems

12 Platform independent dynamic Java virtual machine analysis: the Java Grande Forum Benchmark suite

Charles Daly, Jane Horgan, James Power, John Waldron

June 2001 **Proceedings of the 2001 joint ACM-ISCOPE conference on Java Grande**

Full text available:  [pdf\(888.16 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper we present a platform independent analysis of the dynamic profiles of Java programs when executing on the Java Virtual Machine. The Java programs selected are taken from the Java Grande Forum benchmark suite, and five different Java-to-bytecode compilers are analysed. The results presented describe the dynamic instruction usage

frequencies, as well as the sizes of the local variable, parameter and operand stacks during execution on the JVM.

These results, presenting a pi ...

Keywords: Java Grande, Java Virtual Machine

13 Architectural support for multilanguage parallel programming on heterogeneous systems

Roberto Bisiani, Alessandro Forin

October 1987 **Proceedings of the second international conference on Architectural support for programming languages and operating systems**, Volume 15 , 22 , 21 Issue 5 , 10 , 4

Full text available:  [pdf\(1.22 MB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

We have designed and implemented a software facility, called Agora, that supports the development of parallel applications written in multiple languages. At the core of Agora there is a mechanism that allows concurrent computations to share data structures independently of the computer architecture they are executed on. Concurrent computations exchange control information by using a pattern-directed technique. This paper describes the Agora shared memory and its software implementation on both t ...

14 Higher order objects in pure object-oriented languages

Thomas Kühne

July 1994 **ACM SIGPLAN Notices**, Volume 29 Issue 7

Full text available:  [pdf\(440.52 KB\)](#) Additional Information: [full citation](#), [index terms](#)

15 New possibilities in the introductory graphics course for computer science majors

Rosalee Wolfe

May 1999 **ACM SIGGRAPH Computer Graphics**, Volume 33 Issue 2

Full text available:  [pdf\(797.81 KB\)](#) Additional Information: [full citation](#), [index terms](#)

16 Customization: optimizing compiler technology for SELF, a dynamically-typed object-oriented programming language

C. Chambers, D. Ungar

June 1989 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 1989 Conference on Programming language design and implementation**, Volume 24 Issue 7

Full text available:  [pdf\(1.87 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Dynamically-typed object-oriented languages please programmers, but their lack of static type information penalizes performance. Our new implementation techniques extract static type information from declaration-free programs. Our system compiles several copies of a given procedure, each customized for one receiver type, so that the type of the receiver is bound at compile time. The compiler predicts types that are statically unknown but likely, and inserts ...

17 Benchmarking Java against C and Fortran for scientific applications

J. M. Bull, L. A. Smith, L. Pottage, R. Freeman

June 2001 **Proceedings of the 2001 joint ACM-ISCOPE conference on Java Grande**

Full text available:  [pdf\(637.46 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Increasing interest is being shown in the use of Java for scientific applications. The Java Grande benchmark suite [4] was designed with such applications primarily in mind. The perceived lack of performance of Java still deters many potential users, despite recent advances in just-in-time (JIT) and adaptive compilers. There are however few benchmark results available comparing Java to more traditional languages such as C and Fortran. To address this issue, a subset of the Java Grande Benchma ...

Keywords: C, Fortran, Java, benchmarking, performance, scientific applications

18 PolyTOIL: A type-safe polymorphic object-oriented language 

Kim B. Bruce, Angela Schuett, Robert van Gent, Adrian Fiech

March 2003 **ACM Transactions on Programming Languages and Systems (TOPLAS)**,
Volume 25 Issue 2

Full text available:  [pdf\(820.12 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

PolyTOIL is a new statically typed polymorphic object-oriented programming language that is provably typesafe. By separating the definitions of subtyping and inheritance, providing a name for the type of self, and carefully defining the type-checking rules, we have obtained a language that is very expressive while supporting modular type-checking of classes. The *matching* relation on types, which is related to F-bounded quantification, is used both in stating type-checking rules and expres ...

Keywords: Matching, hash type

19 An event-object recovery model for object-oriented user interfaces 

Haiying Wang, Mark Green

October 1991 **Proceedings of the 4th annual ACM symposium on User interface software and technology**

Full text available:  [pdf\(955.85 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

20 The process of object-oriented design 

Dennis de Champeaux, Doug Lea, Penelope Faure

October 1992 **ACM SIGPLAN Notices , conference proceedings on Object-oriented programming systems, languages, and applications**, Volume 27 Issue 10

Full text available:  [pdf\(1.93 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

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